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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-16-10** **Date: 19-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-10 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	149	149	1.0	99.0	90-100
3	20 mm	7455	7604	50.7	49.3	30-70
4	10 mm	4056	11660	77.7	22.3	10-35
5	4.75 mm	3075	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

AE-11

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-16-10** **Date: 19-07-18**

Sample ID No : 2018-07-16-10 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	14.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.44	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_

Note:
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 19-07-18

Lab ID	:	**CP-2018-07-16-10**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-10 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.23	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-94

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-07-16-10 **Date: 14-08-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-10 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-16-10** **Date: 19-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-10 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-16-10** **Date: 19-07-18**

Sample ID No : 2018-07-16-10 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2018-07-16-10 Date: 19-07-18
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-10 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-07-18
Total weight taken	:	1000 grams

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	202	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	189	420	42.0	58.0	30-70	55-90	75-100	90-100
5	600 micron	204	624	62.4	37.6	15-34	35-59	60-79	80-100
6	300 micron	148	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	135	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-16-10** **Date: 19-07-18**

Sample ID No : 2018-07-16-10 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.29	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	7.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-16-10** **Date: 18-07-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-10 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	17-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	532	610	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	548	660	19.5%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	559	678	19.0%	Satisfactory	Satisfactory

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2018-07-16-10
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R Enterprises, Prp. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-10 /05
Sample Type /Size	:	100mm thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	17/07/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.03	1.386	4474	86.7	19.4	18.0	22.5
3	Cover Slab-3	75.13	100.02	1.344	4436	88.9	20.1	18.7	23.3
5	Cover Slab-5	75.63	100.04	1.396	4492	87.4	19.5	18.1	22.6

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-07-28-07** **Date: 01/08/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-07-18
Sample ID No	:	2018-07-28-07 /01
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	25/07/2018	01/08/2018	150.22 X 149.63 X 150.22	22477	8.144	406.8	18.1	18.0
2	RMC	M20	25/07/2018	01/08/2018	149.68 X 150.74 X 150.34	22563	8.163	397.1	17.6	
3	RMC	M20	25/07/2018	01/08/2018	149.63 X 151.22 X 150.75	22627	8.175	416.3	18.4	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/08/2018

Lab ID	:	CP-2018-07-28-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Raghavendra colony in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	M/s. M.K.R.Enterprises, Pro. Mahendra Kumar, #04, 6th main road Postal colony, Sanjaynagara, Bangalore-94.
Customer's Reference	:	BBMP/EE/BTP/WO/19/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-07-18
Sample ID No	:	2018-07-28-07 /02
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	25/07/2018	22/08/2018	150.66 X 150.46 X 149.37	22668	8.126	519.1	22.9	22.9
2	RMC	M20	25/07/2018	22/08/2018	150.44 X 150.37 X 151.22	22622	8.167	522.6	23.1	
3	RMC	M20	25/07/2018	22/08/2018	150.47 X 150.78 X 150.76	22688	8.175	517.3	22.8	

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